



SEQUENCE LISTING

<110> DESPRES, PHILLIPE
CATTEAU, ADELINE

<120> ATTENUATED FLAVIVIRUS STRAINS CONTAINING A MUTATED M-ECTODOMAN
AND THEIR APPLICATIONS

<130> 239783US0

<140> 10/608,029

<141> 2003-06-30

<160> 36

<170> PatentIn version 3.2

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<212> DNA

<213> Artificial Sequence

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<223> synthetic oligonucleotide

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<210> 10
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 <400> 12
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 <400> 15
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 <400> 16
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 C, G, S, T, Y, N or Q

<220>
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 W, M, C, G, S, T, Y, N or Q

<220>
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 <223> Xaa is K, R, or H

<220>
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 <222> (8)..(8)
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 <222> (9)..(9)
 <223> Xaa is absent or present and is K, R, H, A, V, L, I, P, F, W, M,
 or C

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Xaa Xaa Xaa Trp Xaa Xaa Xaa Xaa
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<210> 23
 <211> 39
 <212> PRT
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Ser Val Ala Leu Val Pro His Val Gly Met Gly Leu Glu Thr Arg Thr
 1 5 10 15

Glu Thr Trp Met Ser Ser Glu Gly Ala Trp Lys His Gln Arg Ile Glu
 20 25 30

Thr Trp Ile Leu Arg His Pro
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<210> 24
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 <212> PRT
 <213> Dengue virus

<400> 24

Ala Ile Asp Leu Pro Thr His Glu Asn His Gly Leu Lys Thr Arg Gln
 1 5 10 15

Glu Lys Trp Met Thr Gly Arg Met Gly Glu Arg Gln Leu Gln Lys Ile
 20 25 30

Glu Arg Trp Phe Val Arg Asn Pro
 35 40

<210> 25
 <211> 40
 <212> PRT
 <213> Dengue virus

<400> 25

Ala Ile Asp Leu Pro Thr His Glu Asn His Gly Leu Lys Thr Arg Gln
 1 5 10 15

Glu Lys Trp Met Thr Gly Arg Met Gly Glu Arg Gln Leu Gln Lys Ile
 20 25 30

Glu Thr Trp Ile Leu Arg His Pro
 35 40

<210> 26
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<400> 26
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43

<210> 27
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60

c 61

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<400> 29
 Ser Val Ala Leu Val Pro His Val Gly Met Gly Leu Glu Thr Arg Thr
 1 5 10 15

Glu Thr Trp Met Ser Ser Glu Gly Ala Trp Lys His Gln Arg Ile Glu
 20 25 30

Thr Trp Phe Leu Arg His Pro
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 gcggggcccg gatccccggt cgccaccatg 90

<210> 31
 <211> 28
 <212> PRT
 <213> Dengue virus

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 Met Asn Arg Arg Lys Arg Ser Val Thr Met Leu Leu Met Leu Leu Pro
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Thr Ala Leu Ala Arg Asp Pro Pro Val Ala Thr Met
 20 25

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 cctggcccgg gatccaccgg tcgccaccat g 91

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Leu Ala Met Glu Glu Leu Tyr Asn
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42

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Leu Ala Met Glu Glu Leu Tyr Arg Ser Val Ala Leu Val Pro His Val
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Gly Met Gly Leu Glu Thr Arg Thr Glu Thr Trp Met Ser Ser Glu Gly
 20 25 30

Ala Trp Lys His Val Gln Arg Ile Glu Thr Trp Phe Leu Arg His Pro
 35 40 45

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 gccgcgactc

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70